COMBINED	DECLARATION	FOR PATENT	APPLICATION AND	POWER OF ATTORNEY

ATTORNEY'S DOCKET NUMBER

LUD 5298

(Includes Reference to PCT International Applications)

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

ACTIVIN RECEPTOR-LIKE KINASES, PROTEINS HAVING SERINE

THREONINE KINASE DOMAINS AND THEIR USE

the specification of which (check only one item below):

			- L	1 L .	reto.
1_	15	3112	cnec	ı ne	reto.

was filed as United States application

Serial No. 08/436,265

May 16, 1995

and was amended

Οπ _

on ______ (if applicable).

was filed as PCT international application

Number PCT/GB93/02367

November 17, 1993

and was amended under PCT Article 19

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowlege the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

I hereby claim foreign priority benefits under Title 35. United States Code. §119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

PRIOR FOREIGN/PCT APPLICATION(S) AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. 119:

COUNTRY of PCT indicate PCT is	APPLICATION NUMBER	DATE OF FILING tidly, month, years		CLAIMED SUSC 119
GB	9224057.1	17 November 1992	₹ YES	□ ×0
· GB	9304677.9	8 March 1993	₩ YES	□ ∞
GB	9304680.3	8 March 1993	Ģ₹YES	□ ×0
GB	9311047.6	28 May 1993	S YES	□ 10
GB_	9313763.6	2 July 1993	Q YES	□ №
PTO 1391 (REV. 10 83)	Page 1 of 2	U.S. DEPARTMENT OF COMMER	CE Priest and	Tracemark Off

GB GB 9136099.2¹⁰¹ 93**21**344.5 3 August 1993

_ (if applicable).

(January 1991)

Annex US.III, page 2

		claration For Pate to PCT International		n and i	Power of Attor	rney (Conti	nued)		ATTOMEY:	5298
	internat subject manner materia	y claim the benefit ional application(s matter of each of provided by the fi I information as d ate of the prior app) designating the the claims of thirst paragraph of effined in Title 3	United his appli Title 3 37, Code	States of Ame ication is not dis 5. United States of Federal Re	rica that is/s sclosed in th s Code, §112 gulations, §1	are listed at/those 2. I ackno .56(a) wh	below and prior appli wlege the nich occurr	insofar a cation(s) i duty to di ed betwee	is the in the sclose
	PRIOR 35 U.S.	U.S. APPLICATION	S OR PCT INTER	NATION	AL APPLICATION	NS DESIGNA	TING THE	U.S. FOR	BENEFIT U	NDER
			U.S APPLICATION	VS				STATUS	(Check one)
	US	APPLICATION MURRER			US FRINGDATE		PATEN	760	ENDING	ABANDONED
		PCT APPLI	CATIONS DESIGNA	TING TH	E U.S		-			
	PCT APPLICA		PCT FRING DATE		U.S. SERIAL N	UMBERS	 	_		
20	T/GB93	702367 No	ov. 17, 1	993	230.00					
Н. На	this ap	R OF ATTORNEY: plication and transa mber/ Peter 1 gway, Jr. [30,946); 1	ct all business in Felfe (26.736)	the Pate (20, Vi	nt and Trademark 297); Joi ncent M.	k Office conn hn E. I Fazzar	ected ther Lynch (2)	•with /List, (20,9) 6,879)	40);	Alfred man D.
Se ar	nd Correspond	ndence to: (31,	575); Joh asqualini	n A.	Bauer (,894).	32,554)	; D	irect Teleph ame and teleph		o:
		LYNCH .rd Avenue	, New Yor	ck, N	lew York	10022		(212)	688-9	200
	FULL NAME OF INVENTOR	FAMRY NAME Mivazono		ŀ	TGIVEN NAME Kohei			COND GIVEN NA		
201	RESIDENCE & CITIZENSHIP	Uppsala			TE ON FOREIGN COUNTS	RY		Sweder	1	·
	POST OFFICE ADDRESS	POST OFFICE ADDRESS Flogstava				Uppsal		Sweder		
	FULL NAME OF INVENTOR	ten Dijke		i	eter			COND GIVEN NA		,
	RESIDENCE & CITIZENSHIP	ป๊ppsala			re or foreign count Sweden	RY		Sweder	7	
202		POST OFFICE ADDRESS	gen 25C,	s-17.	63,	Uppsal		Sweder	e/COUNTRY	
202	POST OFFICE ADDRESS		9011 2007							
202	POST OFFICE ADDRESS FULL NAME OF INVENTOR	FIOGSCAVA FAMILY NAME Franzen		FIRS	st given name Petra			COND GIVEN NA		
203 202	ADDRESS FULL NAME	FAMILY NAME		FIRS		'AY	C	COND GIVEN NA OUNTRY OF CITE SWEDE TATE & ZIE COO SWEDE	ZENSHIP 1	

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

SIGNATURE OF INVENTOR 201	SIGNATURE OF INVENTOR 202	SIGNATURE OF INVENTOR 203
	4.100	Petro Frenzei
DATE _	DATE	DATE
	october 16, 1905	October 16, 1995

Combined Declaration For Patent Application and Power of Attorney (Continued) ATTORNEY'S DOCKET NUMBER LUD 5298 (includes Reference to PCT International Applications)

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35. United States Code, \$112, I acknowlege the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application:

PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDER 35 U.S.C. 120:

	U.S APPLICATIONS				ie)
U.S. APPLICATION NUMB	A .	U.S. FRING DATE	PATENTED	PENDING	ABANDONED
					<u> </u>
···					
PCT A	PPLICATIONS DESIGNATING TH	F U S		<u> </u>	1
PCT APPLICATION NO	PCT FILING DATE	U.S. SERIAL NUMBERS ASSIGNED #1 ANY)			
PCT/GB93/02367	Nov. 17, 1993			×	

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (List name and registration number) Peter F. Felfe (20, 297); John E. Lynch (20, 940); Alfred

H. Hemingway, Jr. (26,736); Vincent M. Fazzari (26,879); Norman

D. Hanson (30,946); F. Brice Faller (29,532); Andrew L. Tiajolo#f

Send Correspondence to: (31,575); John A. Bauer (32,554); and Patricia A. Pasqualini (34,894).

*FELFE & LYNCH

805 Third Avenue, New York, New York 10022

(212) 688-9200

Direct Telephone Calls to:

		•		
	FULL NAME OF INVENTOR	Yamashita	Hidetoshi	SECOND GIVEN NAME
ē	RESIDENCE & CITIZENSHIP	Uppsala	STATE OR FOREIGN COUNTRY Sweden	Sweden
-	POST OFFICE ADDRESS	BOST OFFICE ADDRESS	752 63, Uppsala	Sweden
	FULL NAME OF INVENTOR	FAMILY NAME Heldin	Carl-Henrik	SECONO GIVEN HAME
202	RESIDENCE &	Üppsala	TATE ONFOREGN COUNTRY	COUNTRY OF CITIZENSHIP Sweden
	POST OFFICE ADORESS	Hesselmans vag 35	S-752 63, Uppsala	Sweden
	FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME	SECONO GIVEN NAME
203	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE & ZIP CODE/COUNTRY

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

SIGNATURE OF INVENTOR 201	SIGNATURE OF RIVENTOR-202	SIGNATURE OF INVENTOR 203
DATE	October 16, 1995	DATE

ŝą

COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY	ATTORNEY'S DOCKET NUMBER
(Includes Reference to PCT International Applications)	LUD 5298

As a below named inventor, I hereby declare that:

the specification of which (check only one item below):

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

ACTIVIN RECEPTOR-LIKE KINASES, PROTEINS HAVING SERINE

THREONINE F	KINASE_	DOMAINS	AND	THEIR	USE

was filed as	United States application	
	08/436,265	•
on	May 16, 1995	
and was am	ended .	. (if applicable).
on	ended PCT international application	. (if applicable).

November 17, 1993

and was amended under PCT Article 19

on ______ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowlege the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

I hereby claim foreign priority benefits under Title 35. United States Code. §119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

PRIOR FOREIGN/PCT APPLICATION(S) AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. 119:

COUNTRY SIPCT indicate PCT 3	APPLICATION NUMBER	GATE OF FILING fday, month, years		
GB	9224057.1	17 November 1992	⅓ ves	□ ~ 0
GB	9304677.9	8 March 1993	₹ 7€5	□~
GB_	9304680.3	8 March 1993	Q~65	□ 100
GB	9311047.6	28 May 1993	12 YES	□ №
GB_	9313763.6	2 July 1993	Ç₹ ves	□~

GB 9136099.2 3 August 1993 X Yes

GB 9321344.5 15 October 1993 X 242187 1991

The first test test to the first test to the first test of the fir

Combined Declaration For Patent Application and Power of Attorney (Continu	ed)
and a second BCT Income to Applications	

TIUD 5298

I hereby claim the benefit under Title 35. United States Code, §120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowlege the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application:

PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDER

	STATUS (Check one)					
U.S. APPLICATION NUMBER			U S FRING DATE		PENDING	ABANDONED
				_		
			·			<u> </u>
PCT A	PPLICATIONS D	ESIGNATING THE L	J.S			
PCT APPLICATION NO	PCTFALE	G DATE	U.S. SERIAL NUMBERS ASSIGNED IF ANY!			
PCT/GB93/02367	Nov. 1	7, 1993				
					1	

power of ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (List name and registration number) Peter F. Felfe (20,297); John E. Lynch (20,940); Alfred H. Hemingway, Jr. (26,736); Vincent M. Fazzari (26,879); Norman D. Hanson (30,946); F. Brice Faller (29,532); Andrew L. Tiajoloff

Send Correspondence to: (31,575); John A. Bauer (32,554); Direct Telephone Calls to: Insure and Telephone Calls to: Insure a

805 Third Avenue, New York, New York 10022

(212) 688-9200

1 "	05 1111	ita iivaliaa, itali aasi,		
П	FULL NAME OF INVENTOR	FAMILY NAME MIVAZONO	Kohei	SECONO GIVEN NAME
ē	RESIDENCE & CITIZENSHIP	Uppsala	Sweden	COUNTRY OF CITIZENSMP Sweden
	POST OFFICE ADDRESS	rost office Address Flogstavagen 63D, S-	732 007 -11	STATE & ZIRCOS/COUNTRY SWECEN
П	FULL MAME OF INVENTOR	ten Dijke	Peter Peter	SECONO GIVEN NAME
202	RESIDENCE &	Uppsala	TATE OR FOREIGN COUNTRY SWEDEN	COUNTRY OF CITIZENSHIP Sweden
	POST OFFICE ADDRESS	Flogstavagen 25C, S-	752 63, Uppsala	Sweden
	FULL NAME OF INVENTOR	Franzen	FIRST GIVEN NAME Petra	SECONO GIVEN NAME
203	RESIDENCE &	Uppsala	STATE OR FOREICH COUNTRY SWEDEN	Sweden
	POST OFFICE ADDRESS	POST OFFICE ADDRESS Lindsbergsgatan 15b	S-752 40, Uppsala	STATE & ZIE COOE/COUNTRY SWEDEN

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

SIGNATURE OF INVENTOR 201	SIGNATURE OF INVENTOR 202	SIGNATURE OF INVENTOR 203
Cohi (Yiyamor		
DATE	3415	;
Oct. 16, 1995	1	•

		٩.
_	ı	J.

Combined Declaration For Patent Application and Power of Attorney (Continued) Includes Reference to PCT International Applications)							LUD	S DOCKET HLAMER 5298	
	internati subject : manner material	onal applicati matter of eac provided by t information	on(s) designation h of the claims he first paragra as defined in T	ig the Unite of this app iph of Title itle 37, Coo	d States Code, §120 of any ded States of America that is oblication is not disclosed in 35, United States Code, §1 de of Federal Regulations, onal or PCT international file	i/are listed that/those 12, I ackno §1.56(a) w	below a prior apposed the prior apposed to the prio	nd, insofar plication(s) e duty to di arred between	as the in the isclose
	PRIOR U 35 U.S.C		TONS OR PCT I	NTERNATIO	NAL APPLICATIONS DESIGN	ATING TH			
			U.S APPLIC	ATIONS			STA	rus (Check on	e)
	U \$ 4	APPLICATION NUMB	. ·		US FRING DATE	PATE	NTED .	PENDING	ABANDONED
									·
		PCT A	PPLICATIONS DE	SIGNATING T	HE U.S				
	PCT APPLICAT	ION NO	PCT FILING	DATE	US SERIAL MUMBERS ASSIGNED IN ANY	1			
C	T/GB93	702367	Nov. 17	, 1993				х	
	this app tion nul	plication and to mberl Pete:	ansact all busine F. Feli	ess in the Par Ee(20)	hereby appoint the following tent and Trademark Office con ,297); John E. 5); Vincent M. rice Faller (29	mected the Lynch Fazza	ri (20,	940); 6.879)	registre- Alfred ; Norma
۲ţ	and	Patric	1,575); ia A. Pa	John A squali	. Bauer (32,554 ni (34,894). New York 10022);	Direct Tele Iname and rei	688-9	to:
	FULL NAME OF INVENTOR	Yamash	ita	1	rst given name Hidetoshi		SECONO GIVE		
5	10770		15	TATE ON FOREIGN COUNTRY Sweden	1	COUNTAY OF CITUZENSAM Sweden			
			ssavagen 3	3A, S+	752 63, Uppsa			OOE/COUNTRY	
	FLEL NAME OF RIVENTOR	Heldin		10	mst svenname Carl-Henrik	1	SECONO GIVE		
707	RESIDENCE L CITIZENSHIP	Űppsal		17	Sweden		COUNTRY OF Swede	n	
	POST OFFICE ADDRESS	POST OFFICE ADD	mans vag		S-752 63, Upps		Swede	CODE/COUNTRY	
		FAMILY NAME	maris vaq		INST GIVEN NAME		SECOND GIVE	H HAME	

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

STATE OR FOREIGN COUNTRY

SIGNATURE OF INVENTOR 201	SIGNATURE OF INVENTOR 202	SIGNATURE OF INVENTOR 203
Hiletoshi Tamashita		
out. 16, 1995	DATE	DATE

PTO 1391 MEV 10 834

RESIDENCE &

POST OFFICE ADDRESS POST OFFICE ADDRESS

Payr 2 of 2

U.S. DEPARTMENT OF COMMERCE Patent and Tracemers Office

COUNTRY OF CITIZENSHIP

STATE & ZIP CODE:COUNTRY

(1) GENERAL INFORMATION:

- (i) APPLICANTS: Miyazono, Kohei; Dijke, Peter Ten; Franzen, Petra; Yamashita, Hidetoshi; Heldin, Carl-Henrik
- (ii) TITLE OF INVENTION: Activin Receptor-Like Kinase, Proteins Having Serine Threonine Kinase Domains And Their Use
- (iii) NUMBER OF SEQUENCES: 29
- (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Felfe & Lynch
 - (B) STREET: 805 Third Avenue
 - (C) CITY: New York City
 - (D) STATE: New York
 - (F) ZIP: 10022
- (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Diskette, 3.5 inch, 360 kb storage
 - (B) COMPUTER: IBM
 - (C) OPERATING SYSTEM: PC-DOS
 - (D) SOFTWARE: Wordperfect
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: 08/436,265
 - (B) FILING DATE: 30-October-1995
 - (C) CLASSIFICATION: 514
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: PCT/GB93/02367
 - (B) FILING DATE: 17-November-1993
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: 9224057.1
 - (B) FILING DATE: 17-November-1992
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: 9304677.9
 - (B) FILING DATE: 8-March-1993
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: 9304680.3
 - (B) FILING DATE: 8-March-1993
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: 9311047.6
 - (B) FILING DATE: 28-May-1993
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: 9313763.6
 - (B) FILING DATE: 2-July-1993

_